

ABSTRACT OF THE DISCLOSURE

Screens for use with image-forming illumination (53,54) are provided, as well  
5 as methods for producing such screens. The screens include an array of lenses (51), a  
substrate, and a layer of light-absorbing material (55) in which apertures are formed  
using aperture-forming illumination (52) which passes through the lenses (51). The  
optical properties of the lenses (51) and the thickness of the substrate are selected so as  
to maximize the light-blocking area of the layer of light-absorbing material (55) while  
allowing long-wavelength image-forming illumination (54) to pass through the  
10 apertures substantially unimpeded. The array of lenses can be an array of randomized,  
anamorphic microlenses.

202007202141 - 0200702